

IN THE SPECIFICATION

Please amend the paragraph beginning at line 13
of page 2 as follows:

--Multipath and intersymbol interference
adversely affects affect the ability of the receiver to
correctly receive the symbols transmitted by the
transmitter. Therefore, designers add equalizers to
receivers in order to cancel the effects of multipath and
intersymbol interference and thereby improve signal
reception.--

Please amend the paragraph beginning at line 21
of page 7 as follows:

--~~The invention described in U.S. Patent~~
~~Application Serial No. (7227) uses~~ It has been known
internally by assignee to use these characteristics to
substantially reduce the computation load in the
conjugate gradient algorithm and to even eliminate the
need to form the input auto-correlation matrix.
Accordingly, the improved conjugate gradient algorithm
disclosed in that application may be used to achieve
satisfactory convergence times for equalizers.--

Please amend the paragraph beginning at line 5
of page 8 as follows:

--~~The (7227) application also suggests~~ It has
also been known internally by assignee that the conjugate
gradient algorithm can be used to estimate channels. The
present invention reduces the computation complexity in
performing the conjugate gradient algorithm with respect
to channel estimators.--